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(21) International Application Number: PCT/GB98/00216 (22) International Filing Date: 26 January 1998 (26.01.98) (30) Priority Data: 9701492.2 24 January 1997 (24.01.97) GB (71) Applicant (for all designated States except US): THE UNIVERSITY OF EDINBURGH [GB/GB]; Old College, South Bridge, Edinburgh EH8 9YL (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): BLACKBURN, Catherine, Clare [GB/GB]; The University of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB). CHAMBERS, Ian, Paul [GB/GB]; The University of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB). MEDVINSKY, Alexander, Leonidovitch [RU/GB]; The University of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB). NIWA, Hitoshi [JP/GB]; The University of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB). SMITH, Austin, Gerard [GB/GB]; The University of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB).		sity of Edinburgh, Centre for Genome Research, The King's Buildings, West Mains Road, Edinburgh EH9 3JQ (GB). (74) Agent: SCHLICH, George, William; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>

(54) Title: DNA EXPRESSION IN TRANSFECTED CELLS AND ASSAYS CARRIED OUT IN TRANSFECTED CELLS

(57) Abstract

A method of expression DNA in a cell comprises, in a cell that expresses a replication factor, transfecting the cell with a vector, wherein (i) the vector contains a DNA, or is adapted to receive a DNA, in operative combination with a promoter for expression of the DNA; and (ii) extrachromosomal replication of the vector is dependent upon presence within the cell of the replication factor. Stable maintenance of the vector and expression of the DNA is thereby achieved. Vectors for expression of DNA are provided as are assays for the effect of expression of DNAs in cells, the DNAs being expressed from the vectors.

